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L9: Entry 17 of 31

File: DWPI

Dec 16, 1998

DERWENT-ACC-NO: 1991-135948

DERWENT-WEEK: 199904

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TITLE: Corrosion inhibitor for boiler water - contains dehydro:acetic acid or salt, with one or more of ascorbic, erythorbic, sorbic acids or salt

PRIORITY-DATA: 1989JP-0205716 (August 10, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2838292 B2	December 16, 1998	N/A	003	C23F011/12
JP 03072091 A	March 27, 1991	N/A	003	N/A

INT-CL (IPC): C02F 1/00; C23F 11/12; C23F 14/02

ABSTRACTED-PUB-NO: JP03072091A

BASIC-ABSTRACT:

The corrosion inhibitor contains dehydroacetic acid, or its salt, or with at least one of small amt. of ascorbic acid, erythorbic acid, sorbic acid, or salt.

USE - For removing dissolved oxygen from boiler water, and preventing boiler from corrosion, partic. for boilers in food industry.

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-072091

(43)Date of publication of application : 27.03.1991

(51)Int.Cl.

C23F 11/12

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(21)Application number : 01-205716

(71)Applicant : DAITO KAGAKU KK

(22)Date of filing : 10.08.1989

(72)Inventor : YOSHIDA MAKOTO
MIURA YOSHITAKA

(54) ANTICORROSIVE FOR BOILER WATER

(57)Abstract:

PURPOSE: To enhance the effect of an anticorrosive for preventing the corrosion of the material of a boiler brought into contact with boiler water in a food plant by using only dehydroacetic acid (salt) or this acid (salt) as a base and a small amt. of ascorbic acid, erysorbic acid, etc.

CONSTITUTION: This anticorrosive for boiler water contains only dehydroacetic acid (salt) or this acid (salt) as a base and a small amt. of one or more kinds of compds. selected among ascorbic acid, erysorbic acid, sorbic acid and salts of the acids. Since this anticorrosive is used as a food additive such as a preservative, the corrosion of the material of a boiler is prevented without producing a harmful effect even when steam of boiler water contg. this anticorrosive comes in direct contact with food.

LEGAL STATUS

[Date of request for examination]

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L5: Entry 18 of 32

File: USPT

Jan 1, 1991

DOCUMENT-IDENTIFIER: US 4981678 A

TITLE: Foamable biocide composition

DEPR:

Where the container is to be employed is metal it is preferable to incorporate a corrosion inhibitor. This became apparent when researching the invention as several working formulations were achieved which however were found to corrode tin plate or aluminum containers at extraordinary rates resulting in short shelf lives. Typical corrosion inhibitors which are effective include organic acid salts preferable corrosion inhibitors include sorbic acid, benzoic acid, sodium benzoate and potassium sorbate.

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L5: Entry 20 of 32

File: USPT

Apr 10, 1990

DOCUMENT-IDENTIFIER: US 4915934 A

TITLE: Foamable biocide composition

DEPR:

Where the container is to be employed is metal it is preferable to incorporate a corrosion inhibitor. This became apparent when researching the invention as several working formulations were achieved which however were found to corrode tin plate or aluminum containers at extraordinary rates resulting in short shelf lives. Typical corrosion inhibitors which are effective include organic acid salts preferable corrosion inhibitors include sorbic acid, benzoic acid, sodium benzoate and potassium sorbate.

CLPW:

said composition containing 0.1 to 6% w/w of a corrosion inhibitor selected from the group consisting of sorbic acid, benzoic acid, potassium sorbate and sodium benzoate;

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L5: Entry 31 of 32

File: USPT

Feb 15, 1983

DOCUMENT-IDENTIFIER: US 4374174 A

TITLE: Composition and sheet materials for inhibiting corrosion of metals

ABPL:

Compositions and sheet materials for inhibiting the corrosion of metals, particularly aluminum and ferrous metals, and alloys thereof. The compositions comprise as their essential active ingredient an alkali metal salt of an unsaturated organic acid, especially a potassium salt of an acrylic acid such as sorbic acid. The compositions, when embodied in, or carried on, various sheet materials, provide protection for metal surfaces both in direct contact with the sheet materials as well as for those areas of the metal surfaces not in direct contact with the sheet materials.

DEPR:

The following comparative test procedure was carried out using 35 lb Kraft paper impregnated with potassium sorbate to a loading of about 1 gram per square feet of surface area; oil impregnated 30 lb Kraft paper; 35 lb natural neutral Kraft paper; and a commercially available corrosion inhibiting sheet material incorporating as active ingredients sodium nitrite benzoic acid, and diethanolamine. The test was conducted using the sheets as interleaves between test panels of aluminum, and as 100% overwraps for the panels.

DETL:

100% Product Under Test Overwrapped
Interleaved _____ 1. Potassium sorbate
Excellent--Shiny Excellent protection in 35 lb Kraft all over. outside, edges and in between panels. Very shiny. 2. Oil Impregnated Heavy black cor- Very heavy black cor- 30 lb Kraft rosion on both rosion on the outside sides and edges and edges of both of panel. panels. Between the panels were corroded also, but not as heavy. 3. Control 35 lb Dark gray Dark gray corrosion Natural Neutral corrosion on the outside, Kraft sides and edges. edges, and in between panels. 4. Sodium nitrite, Spots of gray Spots of dark cor- benzoic acid and corrosion on one rosion on outside and diethylaminoetha- side of panel. edges of panels. nol in 35 lb Kraft Interleaved areas remained shiny between panels.

CLPR:

1. A corrosion inhibiting composition for inhibiting corrosive attack on metal surfaces by elements normally present in the atmosphere comprising as the essential active ingredient an alkali metal salt of sorbic acid, said active ingredient being characterized in that it acts both as a contact and as a vapor phase corrosion inhibitor with respect to a metal surface.

CLPR:

7. An article of manufacture which acts as a contact and a vapor phase inhibitor for inhibiting the corrosion of metals comprising a solid carrier in sheet form having incorporated therein as an essential active ingredient an alkali metal salt of sorbic acid.